

Product	Model	B10d (cycle)	MTTFd (year)	DC (%)	Category	PL	PFHd	SIL	Type fo safety function			Remarks
									element	block	subsystem	
Emergency stop switch	1 XA series (unibody)	1.0E+05	-	-	-	-	-	-	✓			According to EN60947-5-5 (NC contact conforms to IEC60947-5-1Annex K as Direct Opning Action)
	2 XA series (with removable contact block)		-	-	-	-	-	-	✓			
	3 XW series		-	-	-	-	-	-	✓			
	4 XN series		-	-	-	-	-	-	✓			
	5 HW series (unibody)		-	-	-	-	-	-	✓			
	6 HW series (with removable contact block)		-	-	-	-	-	-	✓			
Interlock switch	7 HS1B series	2.0E+06	-	-	-	-	-	-	✓			Type2 interlocking switch accoeding to ISO14119 (NC contact conforms to IEC60947-5-1Annex K as Direct Opning Action)
	8 HS2B series		-	-	-	-	-	-	✓			
	9 HS5B series		-	-	-	-	-	-	✓			
	10 HS5D series		-	-	-	-	-	-	✓			
	11 HS6B series		-	-	-	-	-	-	✓			
	12 HS1C series		-	-	-	-	-	-	✓			
Interlock switch with solenoid	13 HS1E series	2.0E+06	-	-	-	-	-	-	✓			Type2 interlocking switch with guard locking accoeding to ISO14119 (NC contact conforms to IEC60947-5-1Annex K as Direct Opning Action)
	14 HS1L series		-	-	-	-	-	-	✓			
	15 HS5E series		-	-	-	-	-	-	✓			
	16 HS5L series		-	-	-	-	-	-	✓			
	17 HS6E series		-	-	-	-	-	-	✓			
	18 HS7A-DMC series		-	-	-	-	-	-	✓			
Non-contact door interlock switch	19 HS7A-DMP series	5.0E+07	-	-	-	-	-	-	✓			Type4 interlocking switch accoeding to ISO14119. It can be only used with HR1S-DMB/DME series safety relay module
	20 HS3A-U21M4 (Multi code type)		-	100	99	4	e	2.47E-08	3	✓		
	21 HS3A-U21U4 (Uni code type)		-	100	99	4	e	2.47E-08	3	✓		
	22 HE1B series		-	-	-	-	-	-	-	✓		
Enabling device	23 HE2B series	1.0E+05	-	-	-	-	-	-	✓			According to IEC60947-5-8
	24 HE3B series		-	-	-	-	-	-	✓			
	25 HE5B series		-	-	-	-	-	-	✓			
	26 HE6B series		-	-	-	-	-	-	✓			
	27 HE1G series		-	-	-	-	-	-	✓			
Grip type enabling switch	28 HE2G series	1.0E+05	-	-	-	-	-	-	✓			According to IEC60947-5-8
	29 HE2G-X series(Explosive-protection)		-	-	-	-	-	-	✓			
	30 SE4B series		-	298	99	4	e	2.98E-09	3	✓		
light curtain	31 SE4D-H12	-	-	-	-	-	1.80E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ30mm Protective height : 147 - 1617mm	
	32 SE4D-H16	-	-	-	-	-	2.00E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 230mm	
	33 SE4D-H20	-	-	-	-	-	2.20E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 310mm	
	34 SE4D-H24	-	-	-	-	-	2.40E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 390mm	
	35 SE4D-H28	-	-	-	-	-	2.60E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 470mm	
	36 SE4D-H32	-	-	-	-	-	2.80E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 550mm	
	37 SE4D-H36	-	-	-	-	-	3.00E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 630mm	
	38 SE4D-H40	-	-	-	-	-	3.20E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 710mm	
	39 SE4D-H48	-	100	99	4	e	3.60E-09	3	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 790mm	
	40 SE4D-H56	-	-	-	-	-	4.00E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 950mm	
	41 SE4D-H64	-	-	-	-	-	4.40E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 1110mm	
	42 SE4D-H72	-	-	-	-	-	4.80E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 1270mm	
	43 SE4D-H80	-	-	-	-	-	5.20E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 1430mm	
	44 SE4D-H88	-	-	-	-	-	5.60E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 1590mm	
	45 SE4D-H96	-	-	-	-	-	6.00E-09	-	✓		Type4 safety light curtain (EN61496-1/-2) Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) Detecting capability : φ25mm Protective height : 1750mm	
	Laser scanner	46 SE1L series	-	-	-	3	d	7.50E-09	2	✓		Type3 safety laser scanner (EN61496-1/-3) Cat.3/PL d (EN ISO13849-1) SIL2 (IEC61508)
Force guided relay	47 RF1V series	4.0E+05	-	-	-	-	-	-	✓			Forcibly guided contact according to EN50205 4 contact type/6 contact type
	48 RF2 series		-	-	-	-	-	-	✓			Forcibly guided contact according to EN50205 2 contact type
Safety relay module (HR1S series)	49 HR1S-AC	-	210.4	99	3	e	3.56E-09	3	✓			Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508)
	50 HR1S-AF	-	243	99	4	e	4.62E-09	3	✓			This performance level and MTTFd values are suitable for nominal load and maximum 6,336 switching cycles per year or for low load and maximum 316,800 switching cycles per year.
	51 HR1S-AK	-	154.5	99	4	e	7.39E-09	3	✓			
	52 HR1S-ATE(Stop Cat.0)	-	134.8	99	4	e	6.81E-09	3	✓			
	53 HR1S-ATE(Stop Cat.1)	-	54.5	98.42	3	e	1.96E-08	2	✓			Cat.3/PL d (EN ISO13849-1) SIL 2 (IEC61508) This performance level and MTTFd values are suitable for nominal load and maximum 6,336 switching cycles per year or for low load and maximum 316,800 switching cycles per year. (See instruction manual)
	54 HR1S-DMB	-	83.1	99	4	e	3.92E-09	3	✓			Cat.4/PL e (EN ISO13849-1) SIL3 (IEC61508) The above mentioned performance level and MTTFd values are suitable for low load and maximum 1,900,800 switching cycles per year. (See instruction manual)
55 HR1S-DME	-	84.2	99	4	e	3.97E-09	3	✓				
Safety relay module (HR2S series)	56 HR2S-301P	-	100	90	3	e	4.29E-08	-	✓			Cat.3/PL e according to EN ISO13849-1
	57 HR2S-301P(with SE4B)	-	100	90	(≤5A) 3	e	4.29E-08	-	✓			Cat.3/PL e according to EN ISO13849-1
	58	-	100	99	(≤3.6A) 4	e	2.47E-08	-	✓			Cat.4/PL e according to EN ISO13849-1
	59	-	100	90	(≤5A) 3	e	4.29E-08	-	✓			Cat.3/PL e according to EN ISO13849-1
	60	-	100	99	(≤3.6A) 4	e	2.47E-08	-	✓			Cat.4/PL e according to EN ISO13849-1
	61	-	100	90	(≤5A) 3	e	4.29E-08	-	✓			Cat.3/PL e according to EN ISO13849-1
	62	-	100	99	(≤3.6A) 4	e	2.47E-08	-	✓			Cat.4/PL e according to EN ISO13849-1
Safety relay barrier	63 EB3N(Nop = 5500)	-	100	99	4	e	2.47E-08	-	✓			Cat.4/PL e according to EN ISO13849-1
	64 EB3N(Nop = 8760)	-	64.5	99	4	e	4.22E-08	-	✓			
Safety controller	65 FS1A-C01S	-	100	high	4	e	6.20E-09	3	✓			Cat.4/PL e according to EN ISO13849-1 SIL3 according to IEC61508 8-logic model
	66 FS1A-C11S(dual channel outputs)	-	100	high	4	e	7.10E-09	3	✓			Cat.4/PL e according to EN ISO13849-1 SIL3 according to IEC61508 24-logic model
	67 FS1A-C11S(single channel outputs)	-	100	medum	3	d	1.60E-08	2	✓			Cat.3/PL d according to EN ISO13849-1 SIL2 according to IEC61508 24-logic model
	68 FS1A-C21S(dual channel outputs)	-	100	high	4	e	7.10E-09	3	✓			Cat.4/PL e according to EN ISO13849-1 SIL3 according to IEC61508 11-logic model
	69 FS1A-C21S(single channel outputs)	-	100	medum	3	d	1.60E-08	2	✓			Cat.3/PL d according to EN ISO13849-1 SIL2 according to IEC61508 11-logic model